

Component List

08B24

Version: [01] - Sample Production
Revision: V0
Date: 16/10/2024



Description: List for sample production

#	Designator	Description	Value	PCB Footprint	Manufacturer	Part Number	SheetN umber	Notes
1	C1	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
2	C2	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
3	C3	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
4	C4	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	4	
5	C5	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
6	C6	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	4	
7	C7	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
8	C8	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	4	
9	C9	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	6	
10	C10	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	6	
11	C11	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X5R, 25V	22u	0805	MURATA	GRM21BR61E22ME44#	7	
12	C12	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X5R, 25V	22u	0805	MURATA	GRM21BR61E22ME44#	7	
13	C13	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
14	C14	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
15	C15	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
16	C16	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	7	
17	C17	Surface Mount Multilayer Ceramic Chip Capacitors (SMD MLCCs), 0603, 1%, COG, 50V	68p	0603	KEMET	C0603C680F5GAC	7	
18	C18	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, ±10%, X7R, 10V	470n	0402	MURATA	GRM155R71A47KE01#	7	
19	C19	Chip Multilayer Ceramic Capacitors for Automotive, 0603, 1%, COG, 50V	12p	0603	MURATA	GCM1885C1H120FA16D	7	
20	C20	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, ±10%, X7R, 10V	470n	0402	MURATA	GRM155R71A47KE01#	7	
21	C21	Chip Multilayer Ceramic Capacitors for Automotive, 0603, 1%, COG, 50V	1n5	0603	MURATA	GCM1885C1H152FA16D	7	
22	C24	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 5%, COG, 50V	1n0	0402	MURATA	GRM1555C1H102JA01#	7	
23	C25	Chip Multilayer Ceramic Capacitors for Automotive, 0603, 1%, COG, 50V	1n5	0603	MURATA	GCM1885C1H152FA16D	7	
24	C28	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	68p	0402	MURATA	GCM1555C1H680FA16#	7	
25	C29	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	56p	0402	MURATA	GCM1555C1H560FA16#	7	
26	C30	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	68p	0402	MURATA	GCM1555C1H680FA16#	7	
27	C31	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	56p	0402	MURATA	GCM1555C1H560FA16#	7	
28	C32	Chip Multilayer Ceramic Capacitors for Automotive, 0603, 1%, COG, 50V	12p	0603	MURATA	GCM1885C1H120FA16D	7	
29	C33	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 5%, COG, 50V	1n0	0402	MURATA	GRM1555C1H102JA01#	7	
30	C34	Surface Mount Multilayer Ceramic Chip Capacitors (SMD MLCCs), 0603, 1%, COG, 50V	68p	0603	KEMET	C0603C680F5GAC	7	
31	C35	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
32	C36	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	7	
33	C37	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	7	
34	C38	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	4	
35	C39	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
36	C40	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
37	C41	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X7R, 100V	100n	0603	MURATA	GRM188R72A104KA35#	9	
38	C42	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	4	
39	C43	Chip Multilayer Ceramic Capacitors for Automotive, 1206, 10%, X7S, 100V	2u2	1206	MURATA	GCM31CC72A225KE02L	9	
40	C44	Chip Multilayer Ceramic Capacitors for Automotive, 1206, 10%, X7S, 100V	2u2	1206	MURATA	GCM31CC72A225KE02L	9	
41	C45	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, ±20%, X5R, 16V	22u	0603	SAMSUNG	CL10A226M07JZNC	9	
42	C46	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, ±20%, X5R, 16V	22u	0603	SAMSUNG	CL10A226M07JZNC	9	
43	C47	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 10%, X7R, 50V	4u7	1206	MURATA	GRM31CR71H475KA12#	9	
44	C48	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 10%, X7R, 50V	4u7	1206	MURATA	GRM31CR71H475KA12#	9	
45	C49	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 10%, X7R, 50V	100n	0402	MURATA	GCM155R71H104KE02#	9	
46	C50	Chip Multilayer Ceramic Capacitors for Automotive, 0805, 10%, X7R, 250V	10n	0805	TDK	C0805C100K100J50A	9	
47	C51	Chip Multilayer Ceramic Capacitors for Automotive, 1206, 10%, X7S, 100V	2u2	1206	MURATA	GCM31CC72A225KE02L	9	
48	C52	Chip Multilayer Ceramic Capacitors for Automotive, 1206, 10%, X7S, 100V	2u2	1206	MURATA	GCM31CC72A225KE02L	9	
49	C53	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	9	
50	C54	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	9	
51	C55	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	470p	0402	MURATA	GCM1555C1H471FA16#	9	
52	C56	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	9	
53	C57	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	9	
54	C58	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, ±20%, X5R, 16V	22u	0603	SAMSUNG	CL10A226M07JZNC	9	
55	C59	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	9	
56	C61	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	9	
57	C62	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, ±20%, X5R, 16V	22u	0603	SAMSUNG	CL10A226M07JZNC	9	
58	C63	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X5R, 25V	1u0	0402	MURATA	GRM155R61E105KA12#	5	
59	C64	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X5R, 25V	1u0	0402	MURATA	GRM155R61E105KA12#	5	
60	C65	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	5	
61	C66	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	5	
62	CON1	Pad smad a saldare per strip passo 2.54	Solder_PAD_2.54	PAD_per_Strip_2.54	Kronotech	Solder_PAD_2.54	10	
63	CON2	Pad smad a saldare per strip passo 2.54	Solder_PAD_2.54	PAD_per_Strip_2.54	Kronotech	Solder_PAD_2.54	10	
64	CON3	Header, Vertical Receptacle, 1.27 mm pitch; 0.50 mm lead width, 5 pins, 1 row, 5 pins per row, 6.75 mm L X 1.80 mm W X 4.55 mm H body	M50-3030542	SIP-5	HARWIN	M50-3030542	4	
65	CON4	WR-PHD THT Straight Single Pin Header, 2mm, 3pin	62000311121	WE_WR-PHD_62000311121	WE	62000311121	4	
66	CON5	Pad smad a saldare per strip passo 2.54	Solder_PAD_2.54	PAD_per_Strip_2.54	Kronotech	Solder_PAD_2.54	10	
67	CON6	Pad smad a saldare per strip passo 2.54	Solder_PAD_2.54	PAD_per_Strip_2.54	Kronotech	Solder_PAD_2.54	10	
68	CON7	WR-PHD 2.54 mm THT Angled Dual Pin Header, 2 pin	61300211021	WE_WR-PHD-61300211021	WE	61300211021	10	
69	CON8	WR-PHD 2.54 mm THT Angled Dual Pin Header, 2 pin	61300211021	WE_WR-PHD-61300211021	WE	61300211021	10	
70	D1	High Voltage Surface-Mount Schottky Barrier Rectifier	SS2PH10-M3/84A	DO-220AA	VISHAY	SS2PH10-M3/84A	9	
71	D2	Schottky Diode 40V, 2A	PMEG4020ETP_11	SOD-128	NXP	PMEG4020ETP_11	9	

#	Designator	Description	Value	PCB Footprint	Manufacturer	Part Number	SheetN umber	Notes
72	D3	Transil, Bidirectional, SMA, 600W	SMA6J36CA	SMA	LittleFUSE	SMA6J36CA	9	
73	D4	Transil, Monodirectional, SMA, 600W	SMA6J33A	SMA	ST	SMA6J33A	10	
74	D5	Transil, Monodirectional, SMA, 600W	SMA6J33A	SMA	ST	SMA6J33A	10	
75	D6	Transil, Monodirectional, SMA, 600W	SMA6J33A	SMA	ST	SMA6J33A	10	
76	D7	Transil, Monodirectional, SMA, 600W	SMA6J33A	SMA	ST	SMA6J33A	10	
77	F1	3 A 63 V AC 63 V DC Fuse Board Mount (Cartridge Style Excluded) Surface Mount 1206 (3216 Metric)	0685T3000-01	1206	BELFUSE	0685T3000-01	9	
78	F2	PolySwitch Resettable Device, decaSMDc series	decaSMDC050F/60	2018	LITTELFUSE	decaSMDC050F/60	9	
79	IC1	Low-Power, Ultra-Small, Dual Driver, IO-Link Device Transceiver	MAX14827AATG+	QFN-24	MAXIM	MAX1427A	5	
80	L1	SMD EMI Suppression Ferrite Bead, 0603	470 @ 100MHz	0603	WE	742792645	4	
81	L2	SMD EMI Suppression Ferrite Bead, 0603	470 @ 100MHz	0603	WE	742792645	7	
82	L3	WE-MI SMT Multilayer Inductor	0.47uH	0805	WE	74479032	7	
83	L4	WE-MI SMT Multilayer Inductor	0.47uH	0805	WE	74479032	7	
84	L5	SMD Power Inductor, 1050	33u	1050	WE	7447714330	9	
85	L6	WE-MPSB EMI Multilayer Power Suppression Bead	6 @ 100 MHz	0603	WE	7427922808	9	
86	L7	WE-MAPI SMT Power Inductor, 4020	15u	4020	WE	74438356150	9	
87	QR1	PNP/PNP resistor-equipped transistors, R1=4k7 R2=47k	PUMB13	SOT363	NXP	PUMB13	8	
88	R1	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	4	
89	R2	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100R	0402	ROHM	MCR01MRTJ101	4	
90	R3	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	1k0	0402	ROHM	MCR01MRTJ102	4	
91	R4	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	6	
92	R5	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	4k7	0402	ROHM	MCR01MRTJ472	6	
93	R6	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	4k7	0402	ROHM	MCR01MRTJ472	6	
94	R7	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	7	
95	R8	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	7	
96	R9	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	7	
97	R10	Compact Thick Film Chip Resistors, RC0603, ±1%, 1/10W	0R18	0603	Vishay Dale	RCWE0603R180FKEA	7	
98	R11	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	22k0	0402	ROHM	MCR01MRTF2202	7	
99	R12	Compact Thick Film Chip Resistors, RC0603, ±1%, 1/10W	0R18	0603	Vishay Dale	RCWE0603R180FKEA	7	
100	R13	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	22k0	0402	ROHM	MCR01MRTF2202	7	
101	R14	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	1k00	0402	ROHM	MCR01MRTF1001	7	
102	R15	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	1k00	0402	ROHM	MCR01MRTF1001	7	
103	R16	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	120R	0603	ROHM	MCR03ERTJ121	8	
104	R17	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	120R	0603	ROHM	MCR03ERTJ121	8	
105	R18	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	137k	0402	ROHM	MCR01MRTF1373	9	
106	R19	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	9	
107	R20	Compact Thick Film Chip Resistors, RC0805, ±5%, 1/8W	1k0	0805	ROHM	MCR10EZPJ102	10	
108	R21	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	20k0	0402	ROHM	MCR01MRTF2002	9	
109	U1	32-bit Arm Cortex-M0+ , USB, and Advanced Analog	ATSAMD21G18A-Ax	TQFP48	MICROCHIP	ATSAMD21G18A-A	4	
110	U2	4-Mbit, 2.7V Minimum SPI Serial Flash Memory	AT25SF041B-SSHx-x	nSOIC-8	DIALOG	AT25SF041B-SSHx-x	6	
111	U3	64k I2C Serial EEPROM	24AA64T-IOT	SOT23-5	MICROCHIP	24AA64-IOT	6	
112	U4	Multiprotocol NFC Frontend versione Plus	CLRC66303HN	HVQFN32	NXP	CLRC66303HN	7	
113	VR1	Step-Down Converter With High Efficiency Eco-mode	LMR14010ADDCx	SOT23-6	TI	LMR14010ADDC	9	
114	VR2	500 mA Peak Output LDO Regulator	MIC5219-5.0YMT	TDFN-6	MICROCHIP	MIC5219-5.0YMT	9	
115	VR3	Low Voltage 1A Voltage Regulator (LDO Regulator) 6.5Vin	RP132K331F-TR	DFN-1820-6	NISSHINBO	RP132K331F-TR	9	
116	Y1	SMD Quartz Crystal - JXS22-WA, 27.12MHz ±10ppm Cristalli 10pF 4-SMD, senza piombo	27.12MHz	OSC 2.5x2.0	JAUCH	Q 27.120-JXS22-10-10/10-FU-WA-LF	7	
117	Y2	Ultra Miniature Ceramic Glass Sealed SMD Crystal, ABM8G Series, 12MHz, 18pF	12MHz	OSC 3.2x2.5	ABRACON	ABM8G-12.000MHz-18-D4Y	4	
Notes:								